

10, 14, 18, 12, 16

$$10. \sqrt{\frac{9}{5}} = \frac{3}{\sqrt{5}} \cdot \frac{\sqrt{5}}{\sqrt{5}} = \frac{3\sqrt{5}}{5}$$

$$12. \frac{6}{\sqrt{3}} \cdot \frac{\sqrt{3}}{\sqrt{3}} = \frac{6\sqrt{3}}{3} = 2\sqrt{3}$$

$$14. \frac{\sqrt{96}}{\sqrt{3}} = \sqrt{\frac{96}{3}} = \sqrt{32} = 2 \cdot 2\sqrt{2}$$

$$16. \sqrt{35} \cdot \sqrt{21}$$

$$18. \frac{\sqrt{15}}{1} \cdot \sqrt{\frac{3}{5}} = \sqrt{\frac{45}{5}}$$

3/6/10

13. $\frac{\sqrt{270}}{\sqrt{6}}$

$$1. (3y-2) - (-4y+8)$$

$$\underline{3y} \quad \underline{-2} \quad \underline{+4y} \quad \underline{-8}$$

$$7y - 10$$

$$6. (2x-5)(x^2-3x+4)$$

$$\underline{2x^3} \quad \underline{-6x^2} \quad \underline{+8x} \quad \underline{-5x^2} \quad \underline{+15x} \quad \underline{-20}$$

$$2x^3 - 11x^2 + 23x - 20$$

$$8. (2ab-2)^2$$

$$(2ab-2)(2ab-2)$$

$$4a^2b^2 - 4ab - 4ab + 4$$

$$\underline{4a^2b^2 - 8ab + 4}$$

$$9. 2x^2(-3x^4)^2$$

$$2x^2(9x^8)$$

$$18x^{10}$$

$$13. \frac{u^2}{v} \left(\frac{3v}{u^2} \right)^2$$

$$\frac{u^2}{v} \cdot \frac{9v^2}{u^4} = \frac{9u^2v^2}{vu^4} = \frac{9v}{u^2}$$

$$18. \frac{s^{-2} t^{-3}}{s^{-1} t^0} = s^{-2+1} t^{-3} = s^{-1} t^{-3} = \frac{1}{st^3}$$

$$\frac{\cancel{s}}{s^2 t^3} = \frac{1}{st^3}$$

$$19. \left(\frac{2}{h^2 k^{-3}} \right)^{-2} = \frac{2^{-2}}{h^{-4} k^6}$$

$$\frac{h^4}{2^2 k^6} = \frac{h^4}{4k^6}$$

$$23. \frac{8x^2 - 6x}{4x^2}$$

$$\frac{\cancel{2x}(4x-3)}{\cancel{2}4x^{\cancel{2}}} = \frac{4x-3}{2x}$$